

NSC-486
N.A.S.

N65-82132
Code None
NASA CR 60127

UNPUBLISHED PRELIMINARY DATA

Report on Symposium on Quantitative Biology Sponsored by
Long Island Biological Association and the Commission
on Molecular Biophysics of the International Orga-
nization for Pure and Applied Biophysics

Cold Spring Harbor, June 7-13, 1963

By authority of the First General Assembly of the International
Organization for Pure and Applied Biophysics, Stockholm, August 2, 1961,
a Special Commission on Molecular Biophysics was approved by the Council
of IOPAB at its Second meeting, Vienna, April 13-14, 1962, subject to
ratification by the Second General Assembly of IOPAB, with the following
membership:

- Professor J.A.V. Butler
England
- Professor Melvin Calvin
United States
- Dr. A. Gierer
Germany
- Professor F. Hercik
Czechoslovakia
- Professor Ephraim Katchalski
Israel
- Dr. John C. Kendrew
England
- Dr. Itaru Watanabe
Japan
- Professor Robley C. Williams
United States

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Professor R.C. Williams was asked to serve as Chairman pro tem of the Commission. Dr. G. Schramm was added to the Commission as a liaison member representing the Union of Biochemistry, in May 1963.

The Council requested the Commission to organize a small scientific meeting, preferably in the summer of 1963, in Europe. Attempts to arrange for a meeting in Europe on such notice proved impossible, and Professor Robley C. Williams explored the possibility of holding the meeting in the United States. The NAS-NRC ad hoc Committee on International Relations in Biophysics at its Seventh Meeting on October 16, 1962, discussed plans for the Symposium outlined by Dr. Williams and voted to request the President of the National Academy of Sciences to invite the Commission on Molecular Biophysics of IOPAB to hold its First Meeting and Symposium in the United States in the summer of 1963 and to authorize the solicitation of funds from Federal agencies for the Symposium. It was thought that a three-day symposium might be held in September 1963, possibly in New York City. Professor Williams subsequently convened a planning meeting of the Commission at the Rockefeller Institute, on November 7-8, 1962. The meeting included Drs. Butler, Gierer, Watanabe, Kendrew and Williams, members of the Commission, as well as Professor Solomon, Secretary General of IOPAB, and Dr. John W. Mehl, Program Director, Molecular Biology Program, NSF (part of the time). Plans were made for holding a scientific symposium in the eastern United States in the late summer of 1963, the meeting to be divided into two subjects:

1. Nucleic Acid Copying Mechanisms
2. Control Mechanisms at the Genetic Level

Professor Sinsheimer of the California Institute of Technology, Professor Jacob of the Pasteur Institute, and Professor Novick, temporarily in residence there, were asked to arrange the details of the scientific program and to suggest persons

who should be invited to attend.

Upon the approval by the Council of the National Academy of Sciences Professor Williams informally explored the possibilities of financial support with officials of U.S. Federal granting agencies. In the course of the discussion, it became evident that a conflict with the Cold Spring Harbor Symposium, to be held in June 1963, was impending due to the close similarity of the two scientific programs. The Commission decided to seek cooperation with the Long Island Biological Association and propose a joint symposium. This proposal was accepted by the Board of Directors of the Biological Laboratories at Cold Spring Harbor and by Dr. H. Edwin Umbarger, Director pro tem.

The program of the joint Symposium was arranged by informal negotiations among Dr. Umbarger and Drs. Sinsheimer, Jacob, Novick, and Williams. Papers read at the Symposium have appeared as Volume XXVIII of the Symposia on Quantitative Biology of the Biological Laboratories, Cold Spring Harbor. The program of the meeting is appended (Appendix A.)

In planning attendance at the Symposium, attention had to be given to the limited housing and lecture hall facilities at Cold Spring Harbor; consequently all attendance was by invitation only. Invitations to participants residing within the United States were issued by the officials of the Long Island Biological Association. The international Commission issued invitations to two groups of participants residing outside the United States: (1) by direct invitation by the Chairman pro tem or the Commission to about 30 persons named by Drs. Sinsheimer, Jacob, and Novick; (2) invitation to 27 persons by the Chairman of the Commission from documented nominations submitted by national committees of countries adhering to IOPAB upon request for nominations from the Secretary General.

The general considerations guiding the issuance of invitations were that attendance should include a satisfactory mixture of mature scientists who would contribute to formal presentations and of younger scientists who could profit by attendance at an international symposium. Scientists from 19 different nations were present. Participants invited by the international commission on Molecular Biophysics are shown in appendix B

The National Academy of Sciences obtained financial support for the Meeting from NSF, ONR, AFOSR, and NASA. Travel expenses were defrayed for those whose names are marked by an asterisk. Costs of room and board were paid for all those listed.

Appendices: 1) List of Foreign Participants invited by the Commission on
Molecular Biophysics

2) Program

SYMPOSIUM ON SYNTHESIS AND STRUCTURE OF MACROMOLECULES

COLD SPRING HARBOR

June 7-13, 1963

Foreign participants who attended at the invitation of the
Commission on Molecular Biophysics of the International
Organization for Pure and Applied Biophysics

Group I

Participants invited directly by the Commission:

* Professor J. A. V. Butler
Chester Beatty Research Institute
Fulham Road
London S.W. 3., England

Professor Ruggero Ceppellini (did not attend)
Istituto di Genetica Medica
Dell'Universita di Torino
Turin, Italy

* Dr. J. A. Cohen
Rijksverdedigingsorganisatie TNO
Lange Kleiweg 139
Rijswijk, The Netherlands

* Professor Arne Engström
Institutionen för Medicinsk Fysik
Karolinska Institutet
Stockholm 60, Sweden

* Dr. W. Fiers
Laboratory of Physiological Chemistry
University of Ghent
Ledeganckstraat 35
Ghent, Belgium

* Dr. Vlastimil Habermann
Katedra Lekarske Chemie A Fyziky
University Karlovy Se Sidlem V. Plzni
Karlovarska Tr. 48
Plzen, Czechoslovakia

* Dr. P. H. Hofschneider
Max-Planck-Institut für Biochemie
Goethestrasse 31
Munich 15, Germany

- * Dr. Adam Kepes
Institut Pasteur
25, Rue du Docteur Roux
Paris, France
- * Dr. Uriel Littauer (Israel)
The Biological Laboratories
Harvard University
16 Divinity Avenue
Cambridge 38, Mass.
- * Dr. K. W. Mundry
Max-Planck-Institut für Biologie
Corrensstrasse 41
Tübingen, Germany
- * Dr. G. Pontecorvo
Department of Genetics
The University
Glasgow W. 2, U.K.
- * Dr. Peter Reichard
Institute of Medical Chemistry
University of Uppsala
Uppsala, Sweden
- * Dr. Mutsuo Sekiguchi
Department of Biochemistry
Kanazawa University Medical School
Kanazawa, Japan
- * Dr. R. M. S. Smellie
Department of Biochemistry
University of Glasgow
Glasgow W. 2, Scotland
- * Dr. A. S. Spirin
A. N. Bach Institute of Biochemistry
Academy of Sciences of the USSR
Leninsky prospect 33
Moscow, W-71, USSR
- * Dr. Peter Starlinger
Institut für Genetik der Universität zu Köln
Weyertal 115
Köln-Lindenthal, Germany
- * Dr. Itaru Watanabe
Institute for Virus Research
Kyoto University
Yoshida-Machi
Kyoto, Japan
- * Dr. W. Zillig
Max-Planck-Institut für Biochemie
Goethestrasse 31
Munich 15, Germany

Group II

Participants selected by the Commission from nominees
of the National Committees of Countries adhering to IOPAB

Dr. N.S. Andreeva
Laboratory of Physics of Biological Polymers
Institute of Biophysics
Academy of Sciences of the USSR
Profsoyuznaya 7
Moscow B-133, USSR

* Dr. L. Bosch
Department of Biochemistry
The University of Leiden
Wassenaarseweg 64
Leiden, The Netherlands

* Dr. Mario DiGirolamo (Italy)
Department of Bacteriology and Immunology
Harvard Medical School
Boston 15, Mass.

* Dr. M. A. Foster
Department of Biochemistry
University of Oxford
South Parks Road
Oxford, England

Dr. Pierre Fromageot
Departement de Biologie
Centre d'Etudes Nucleaires de Saclay
B.P. No. 2
Gif-Sur-Yvette (S.&.O)
France

* Dr. Laura Frontali
Istituto di Fisiologia Generale
Universita degli Studi
Rome, Italy

* Dr. G.N. Godson
Chester Beatty Research Institute
Pollards Wood Research Station
Nightingales Lane
Chalfont St. Giles
Buckinghamshire, England

* Dr. N. Gruber
Rijks-Universiteit Te Groningen, Netherlands

Dr. H.E. Johns
Department of Medic-Biophysics
University of Toronto
500 Sherbourne Street
Toronto, Canada

- * Dr. Hans Klenow
Biokemisk Afdeling
Fibiger-Laboratoriet
Frederik V's Vej 11
København Ø, Denmark
- * Professor V. V. Koningsberger
Van 't Hoff-Laboratorium
der Rijksuniversiteit
Sterrenbos 19
Utrecht, The Netherlands
- * Dr. K. Miura
Institute of Molecular Biology
Faculty of Science
Nagoya University
Chikusa-ku
Nagoya, Japan
- * Dr. Mahafud Nazario
Jefe Trabajos Practicos
Catedra Genetica Molecular
Facultad Ciencias Exactas y
Naturales, Peru 222
Buenos Aires, Argentina
- * Dr. N. K. Notani
Atomic Energy Establishment Trombay
Richardson & Cruddas Bldg.
Byculla, Bombay-8, India
- * Dr. Jean Pouyet
Centre des Recherches sur les Macromolecules
6, rue Boussingault
Strasbourg, France
- * Dr. Jose Luis Reissig
Universidad de Buenos Aires
Facultad de Ciencias Exactas y Naturales
Peru 222
Buenos Aires, Argentina
- * Dr. Eduardo Scarano
Laboratorio Internazionale
di Genetica e Biofisica del C.N.R.
Via Claudio 1
Napoli, Italy
- Dr. K. V. Shooter (England)
McArdle Memorial Laboratory
University of Wisconsin Medical School
Madison 6, Wisconsin
- Professor L. Siminovitch
Department of Medical Biophysics
University of Toronto
500 Sherbourne Street
Toronto 5, Canada

- * Dr. Matthys Staehelin
Research Laboratories
Pharmaceutical Dept. CIBA Ltd.
Basle, Switzerland
- * Dr. G. M. Tener
Department of Biochemistry
University of British Columbia
Vancouver 8, Canada

* Full or Partial travel expenses were provided those whose names are marked by an asterisk.